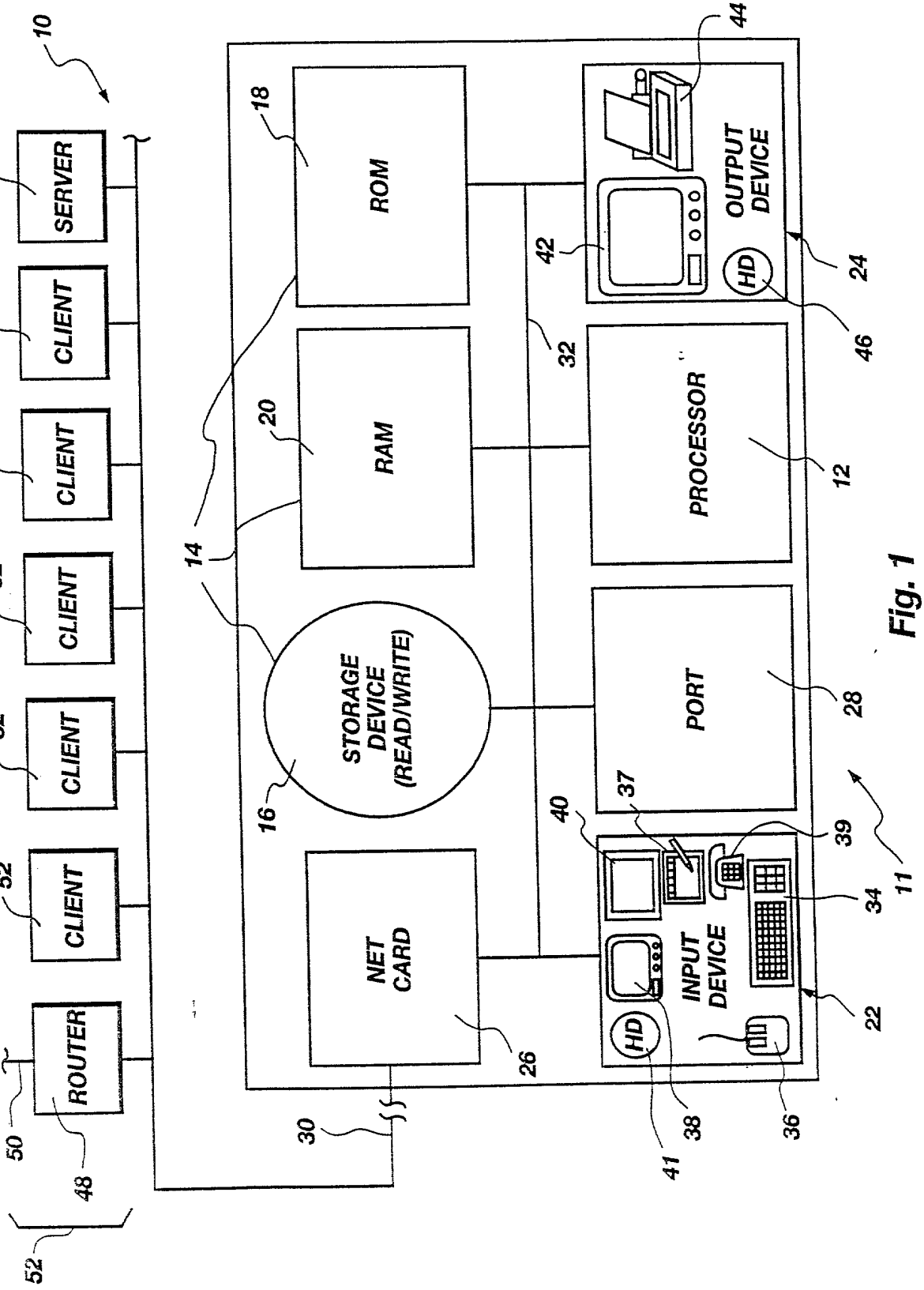

10
54
SERVER
52
CLIENT
52
CLIENT
52
CLIENT
52
CLIENT
52
CLIENT
52
ROUTER
50
48
52
14
18
ROM
20
RAM
16
STORAGE DEVICE (READ/WRITE)
26
NET CARD
30
40
37
41
38
HID
INPUT DEVICE
36
22
39
34
11
28
PORT
32
PROCESSOR
12
42
44
OUTPUT DEVICE
HID
46
24

Fig. 1

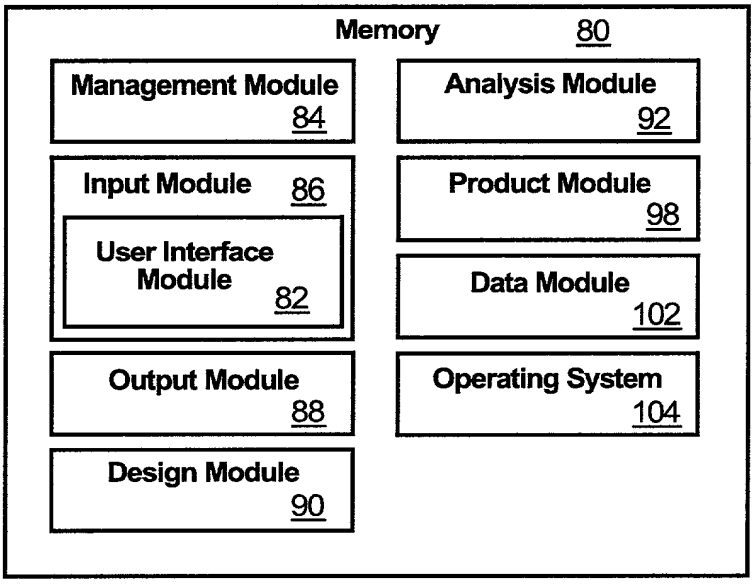


FIG. 2

Docket No. 2003P13249

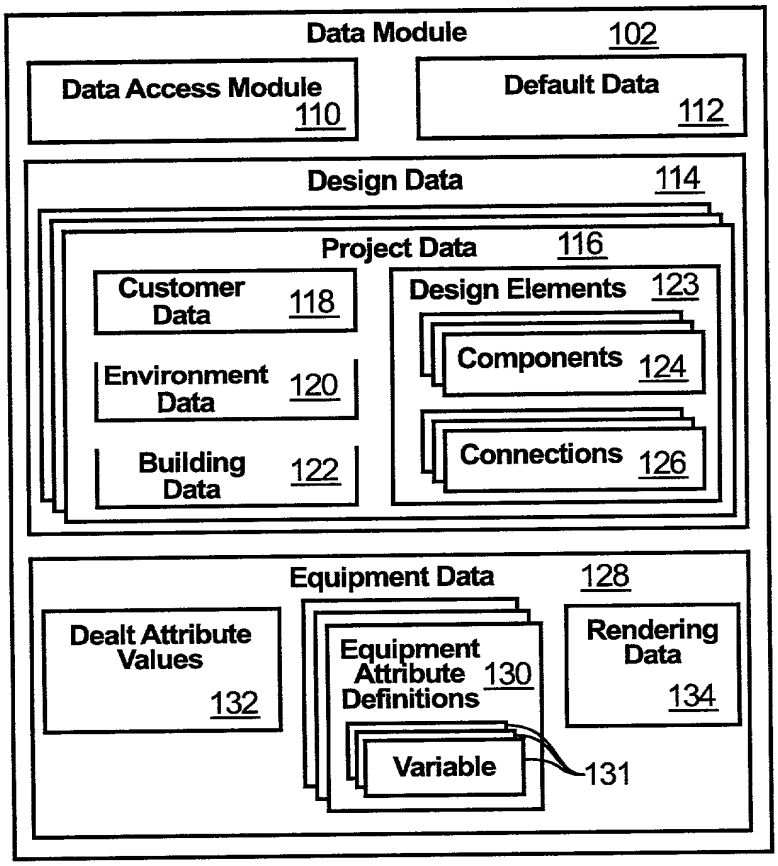

Data Module 102
Data Access Module 110
Default Data 112
Design Data 114
Project Data 116
Customer Data 118
Environment Data 120
Building Data 122
Design Elements 123
Components 124
Connections 126
Equipment Data 128
Dealt Attribute Values 132
Equipment Attribute Definitions 130
Variable
131
Rendering Data 134

FIG. 3

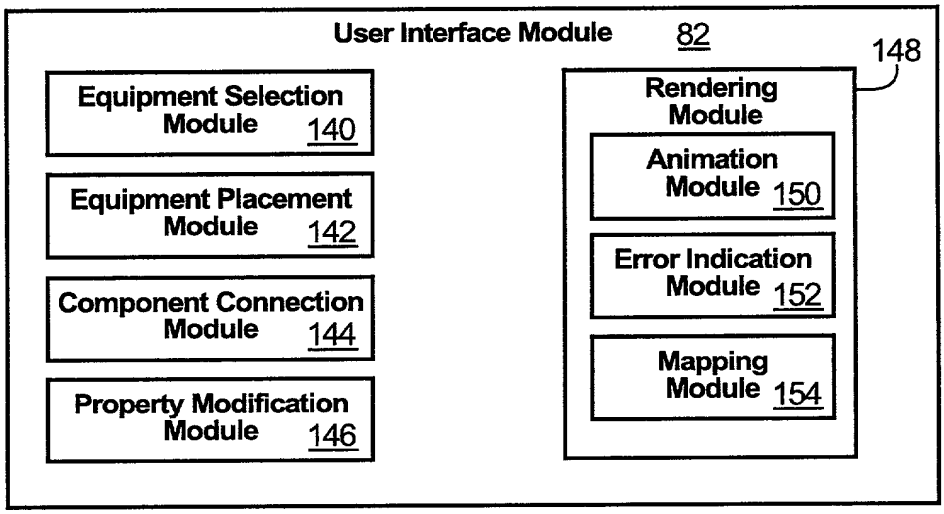

User Interface Module 82
148
Equipment Selection Module 140
Equipment Placement Module 142
Component Connection Module 144
Property Modification Module 146
Rendering Module
Animation Module 150
Error Indication Module 152
Mapping Module 154

FIG. 4

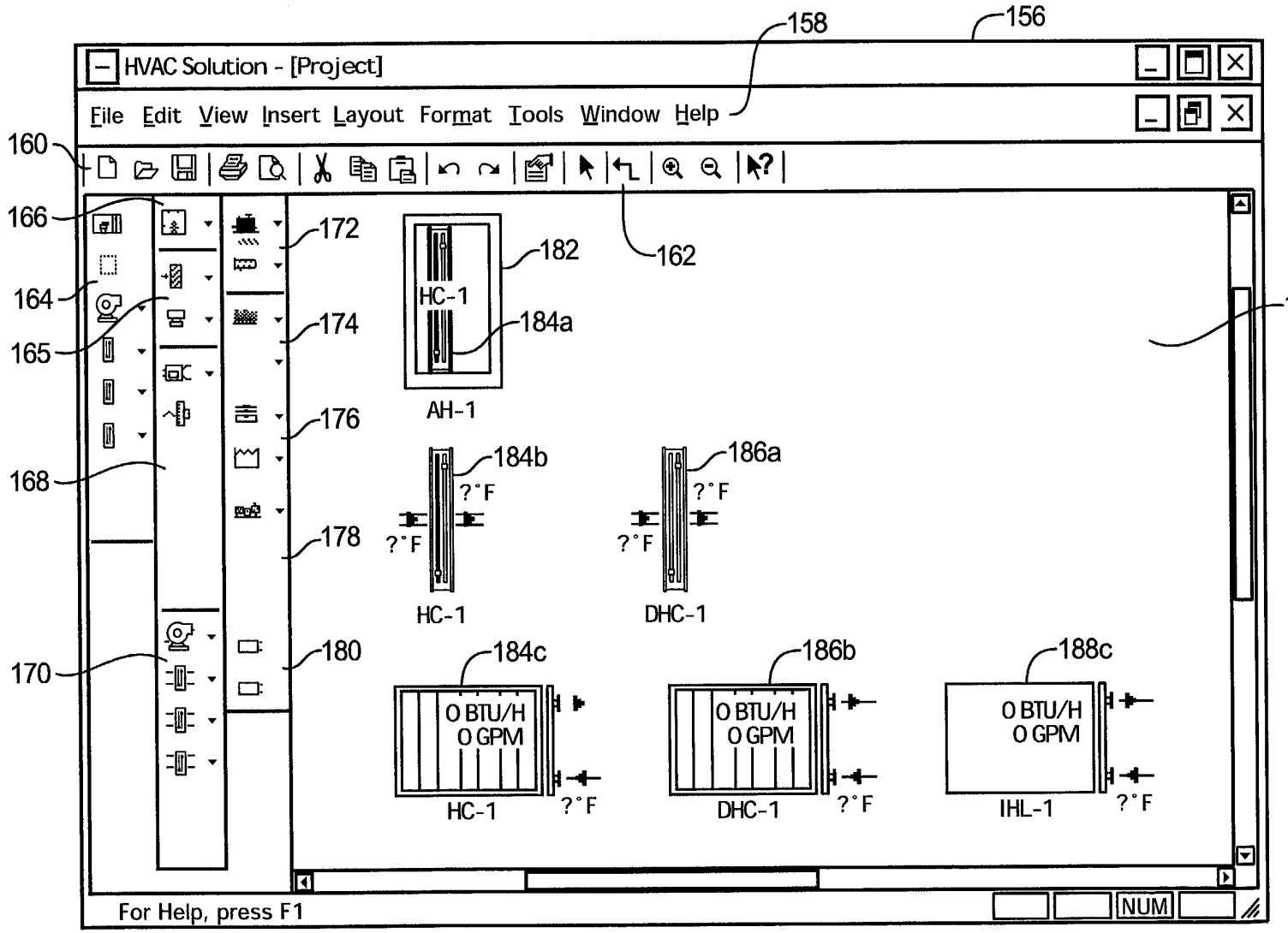

HVAC Solution - [Project]
File Edit View Insert Layout Format Tools Window Help
158
156
160
166
164
165
168
170
172
174
176
178
180
162
182
184a
157
HC-1
AH-1
184b
186a
?°F
HC-1
DHC-1
184c
186b
188c
0 BTU/H
0 GPM
HC-1
DHC-1
IHL-1
For Help, press F1
NUM

FIG. 5

T02T0T" 28T97660

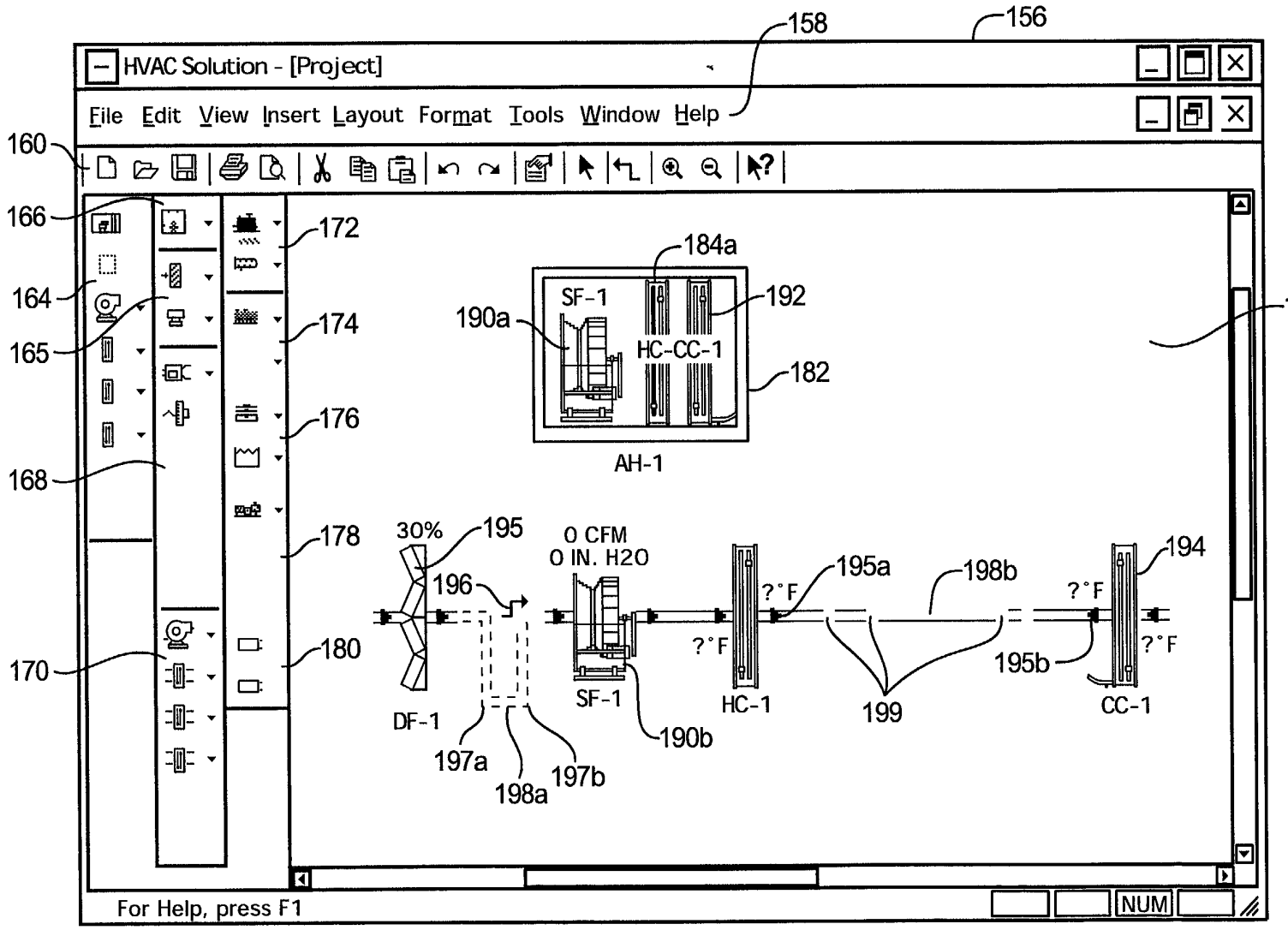


FIG. 6

TO2TOT" Z8T92660

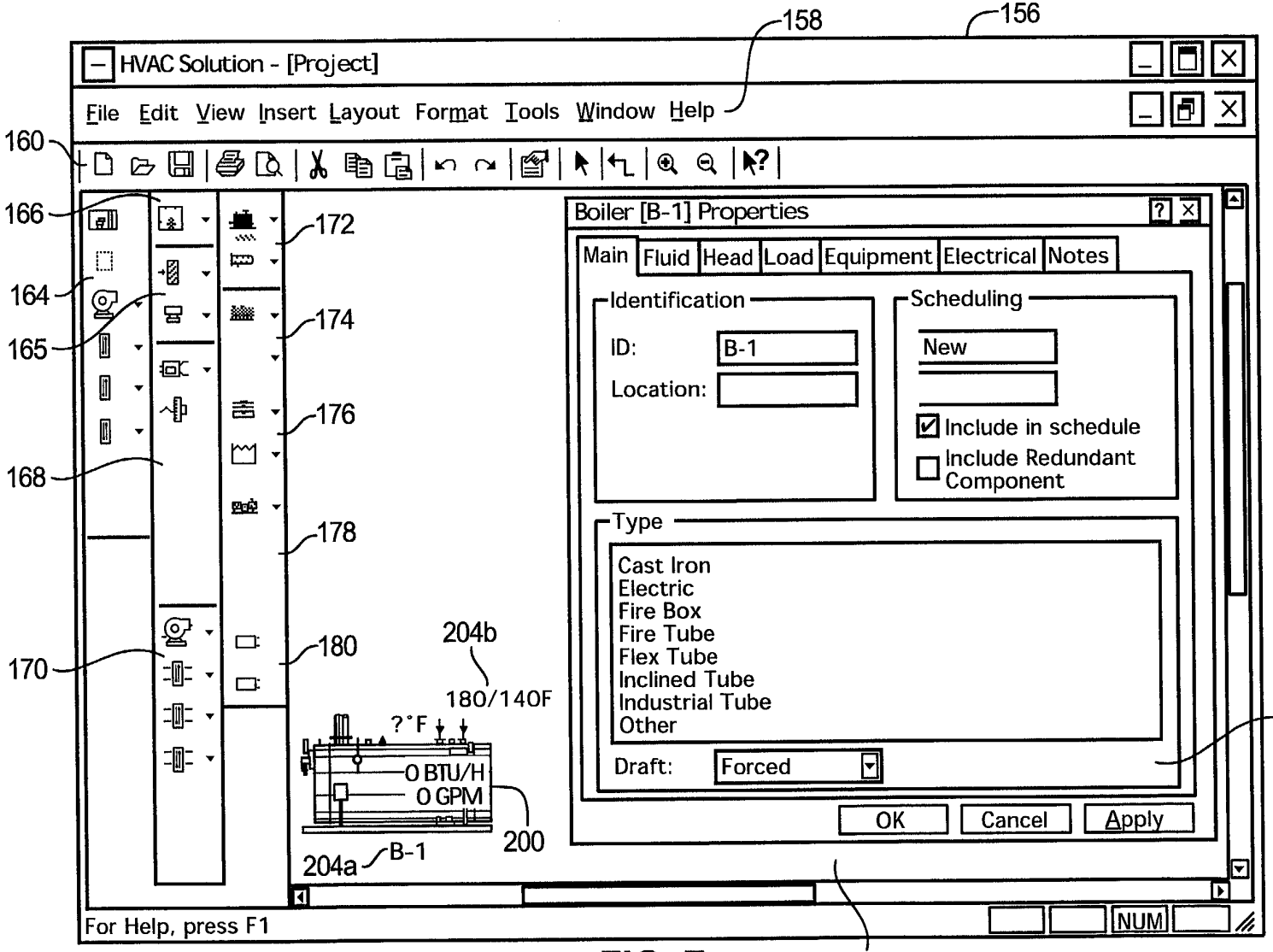
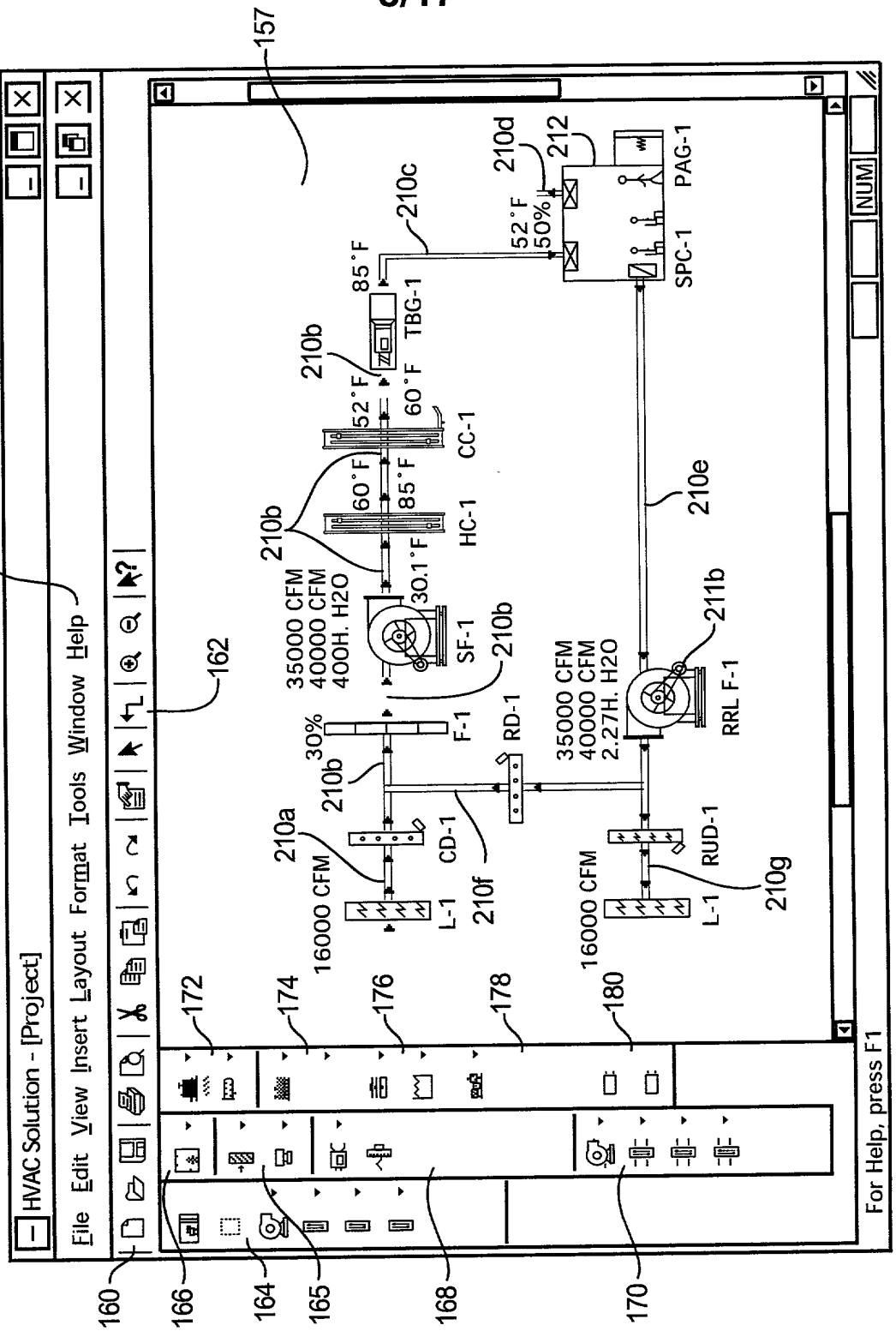


FIG. 7

7/17


HVAC Solution - [Project]
File Edit View Insert Layout Format Tools Window Help
For Help, press F1
NUM
156
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158
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168
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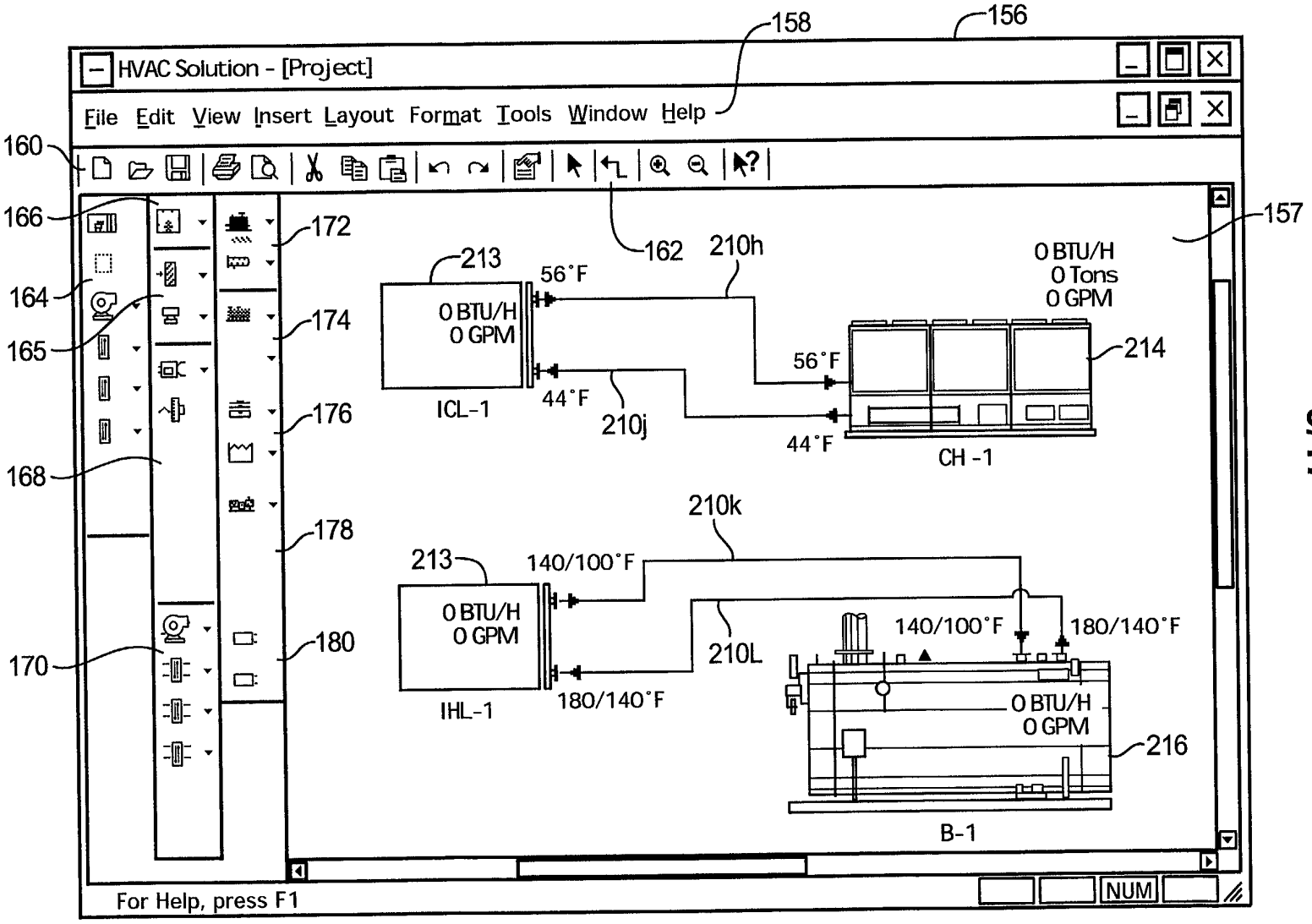
172
174
176
178
180
210a
210b
210c
210d
210e
210f
210g
211b
212
16000 CFM
30%
L-1
CD-1
F-1
RD-1
35000 CFM
40000 CFM
400H. H2O
30.1°F
SF-1
60°F
85°F
HC-1
52°F
60°F
CC-1
85°F
TBG-1
52°F
50%
SPC-1
PAG-1
35000 CFM
40000 CFM
2.27H. H2O
RRL F-1
16000 CFM
L-1
RUD-1

FIG. 8


HVAC Solution - [Project]
File Edit View Insert Layout Format Tools Window Help
For Help, press F1
NUM
158
156
160
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164
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168
170
172
174
176
178
180
162
157
213
56°F
0 BTU/H
0 GPM
ICL-1
44°F
210h
210j
0 BTU/H
0 Tons
0 GPM
214
56°F
44°F
CH -1
210k
213
140/100°F
0 BTU/H
0 GPM
IHL-1
180/140°F
210L
140/100°F
180/140°F
0 BTU/H
0 GPM
216
B-1

FIG. 9

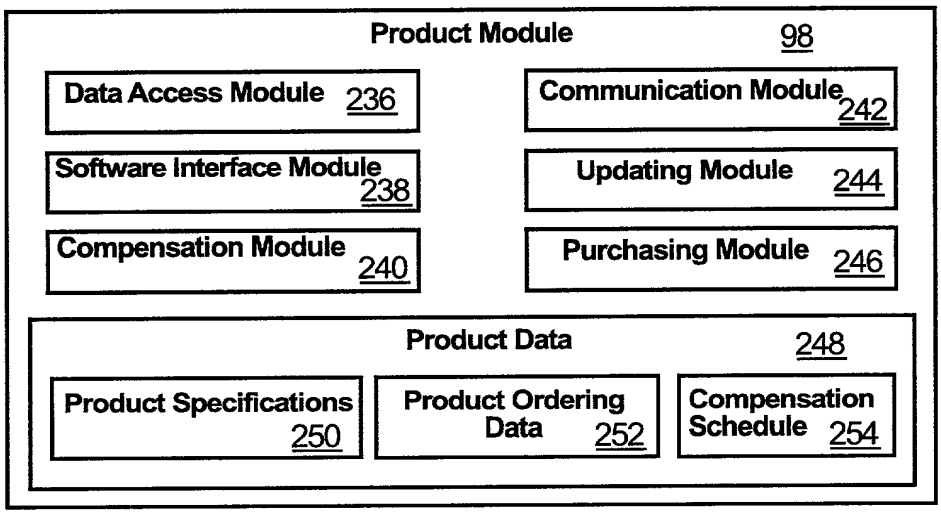

FIG. 10

Attorney Docket No. 2005-0525.00

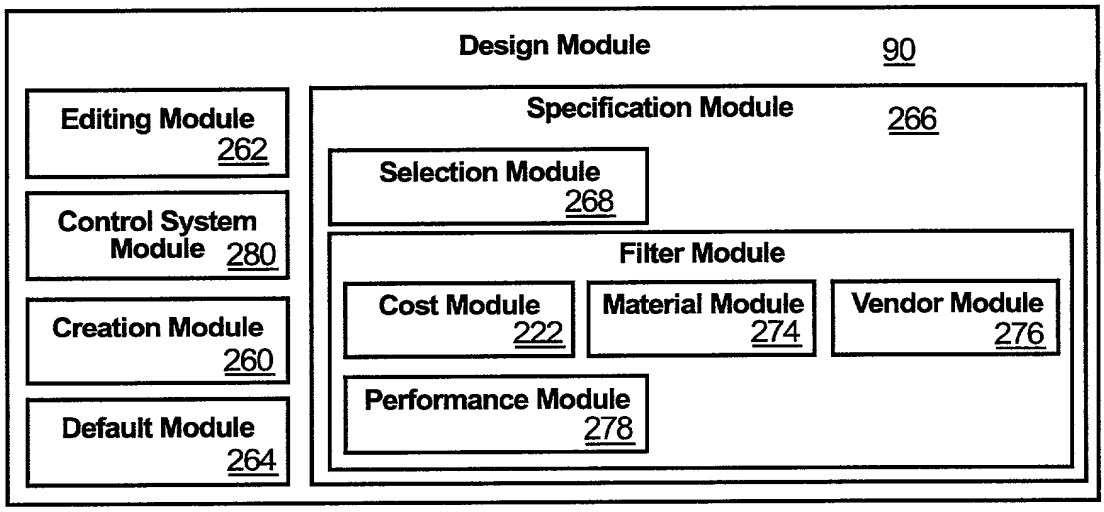
Design Module
90
Editing Module
262
Control System Module
280
Creation Module
260
Default Module
264
Specification Module
266
Selection Module
268
Filter Module
Cost Module
222
Material Module
274
Vendor Module
276
Performance Module
278

FIG. 11

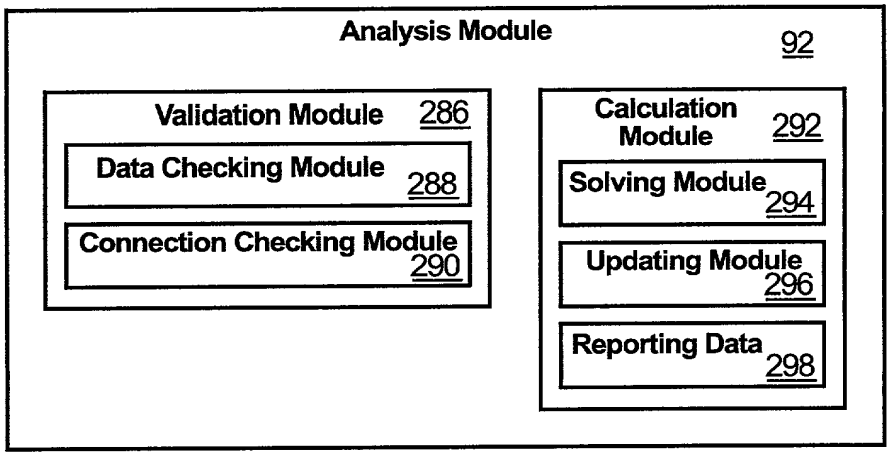
Analysis Module
92
Validation Module
286
Data Checking Module
288
Connection Checking Module
290
Calculation Module
292
Solving Module
294
Updating Module
296
Reporting Data
298

FIG. 12

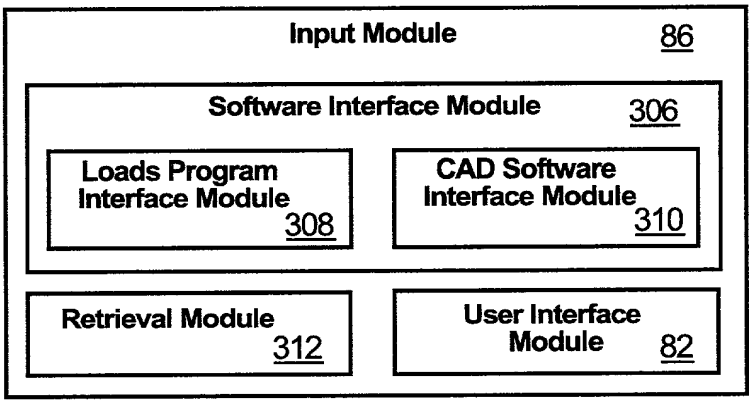
Input Module
86
Software Interface Module
306
Loads Program Interface Module
308
CAD Software Interface Module
310
Retrieval Module
312
User Interface Module
82

FIG. 13

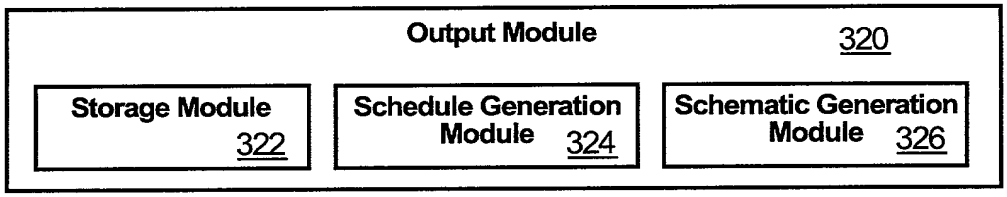
Output Module
320
Storage Module
322
Schedule Generation Module
324
Schematic Generation Module
326

FIG. 14

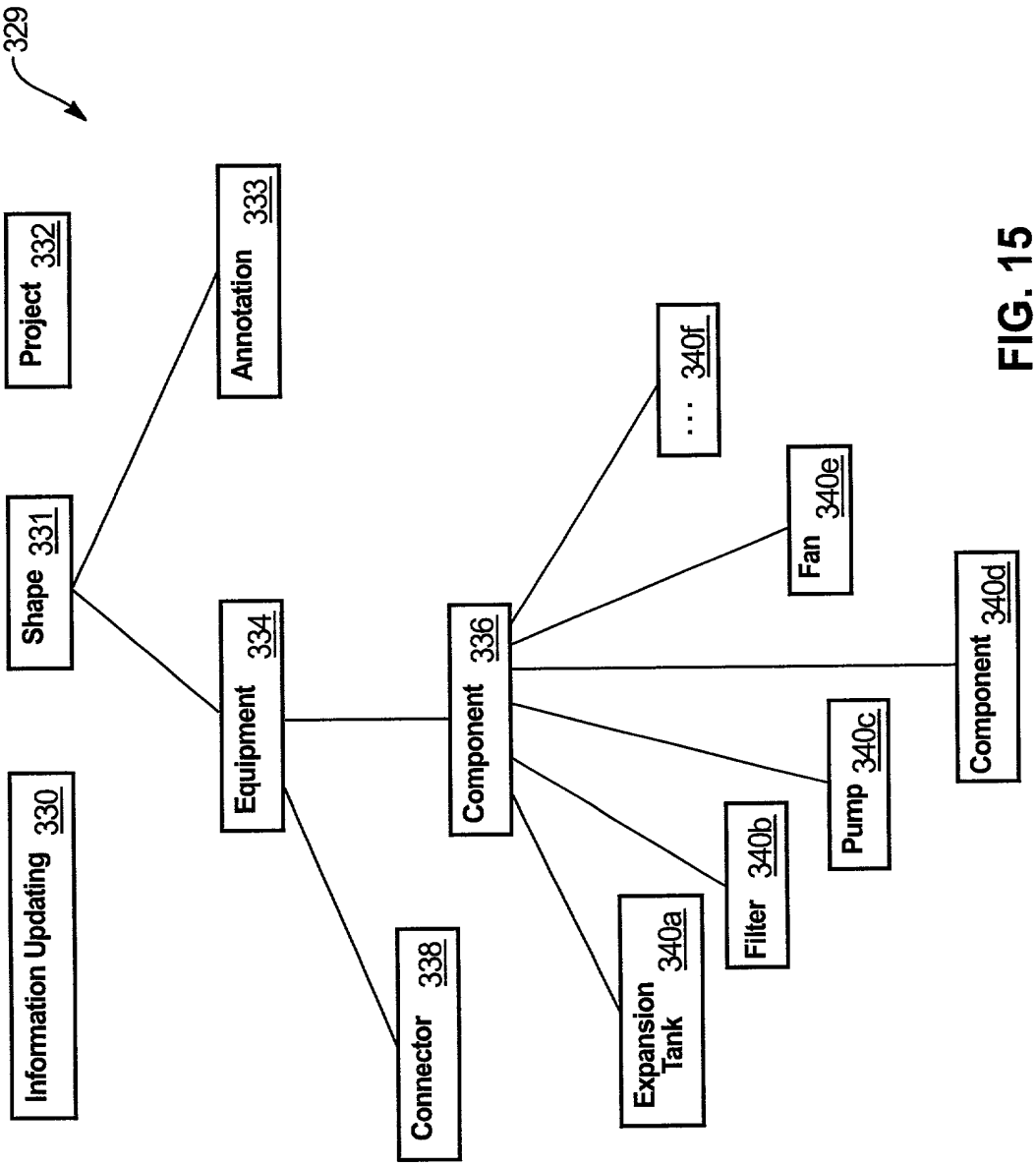
329
Project 332
Shape 331
Annotation 333
Infomation Updating 330
Equipment 334
Component 336
... 340f
Fan 340e
Component 340d
Pump 340c
Filter 340b
Expansion Tank 340a
Connector 338

FIG. 15

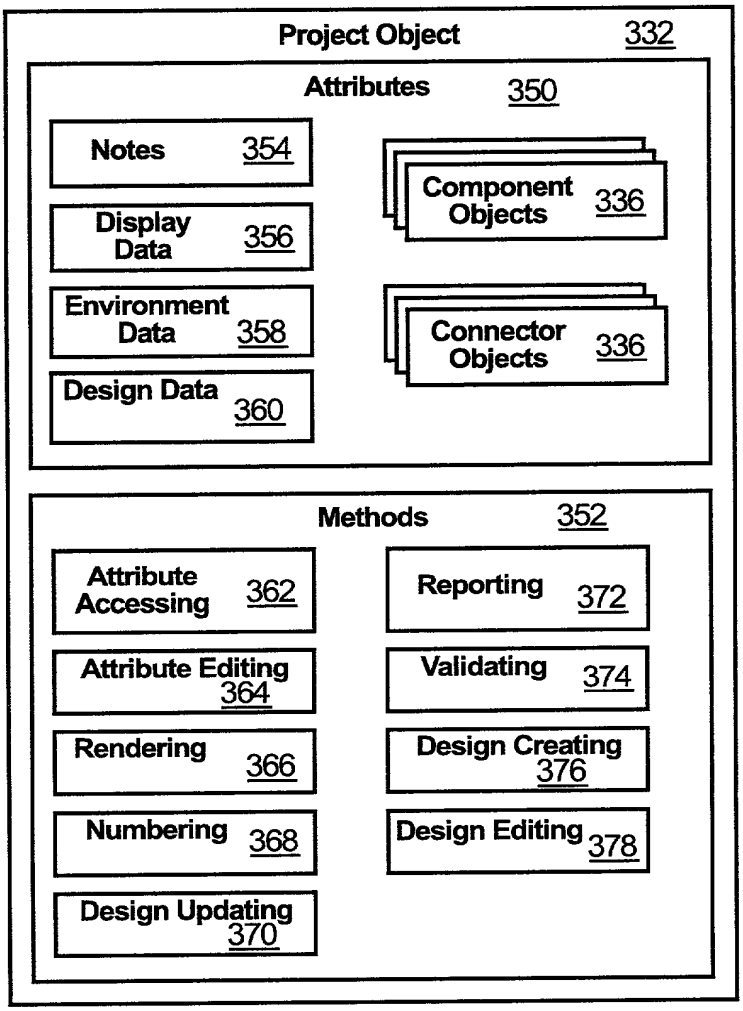
Project Object 332
Attributes 350
Notes 354
Display Data 356
Environment Data 358
Design Data 360
Component Objects 336
Connector Objects 336
Methods 352
Attribute Accessing 362
Attribute Editing 364
Rendering 366
Numbering 368
Design Updating 370
Reporting 372
Validating 374
Design Creating 376
Design Editing 378

FIG. 16

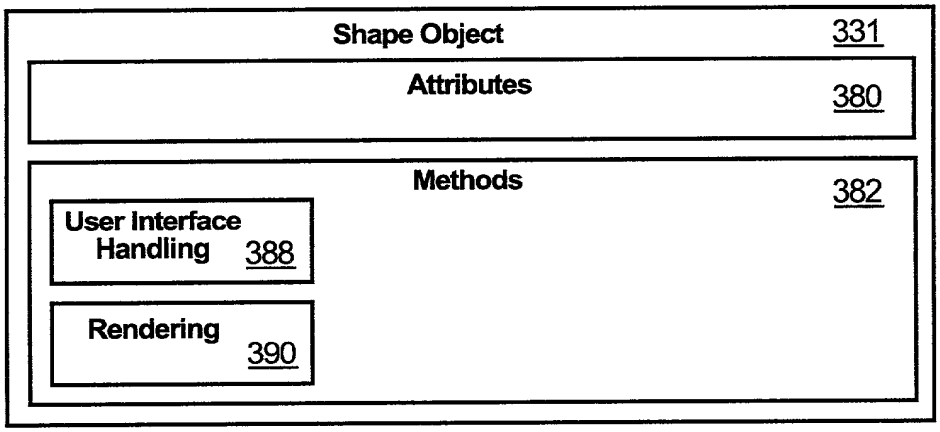

FIG. 17

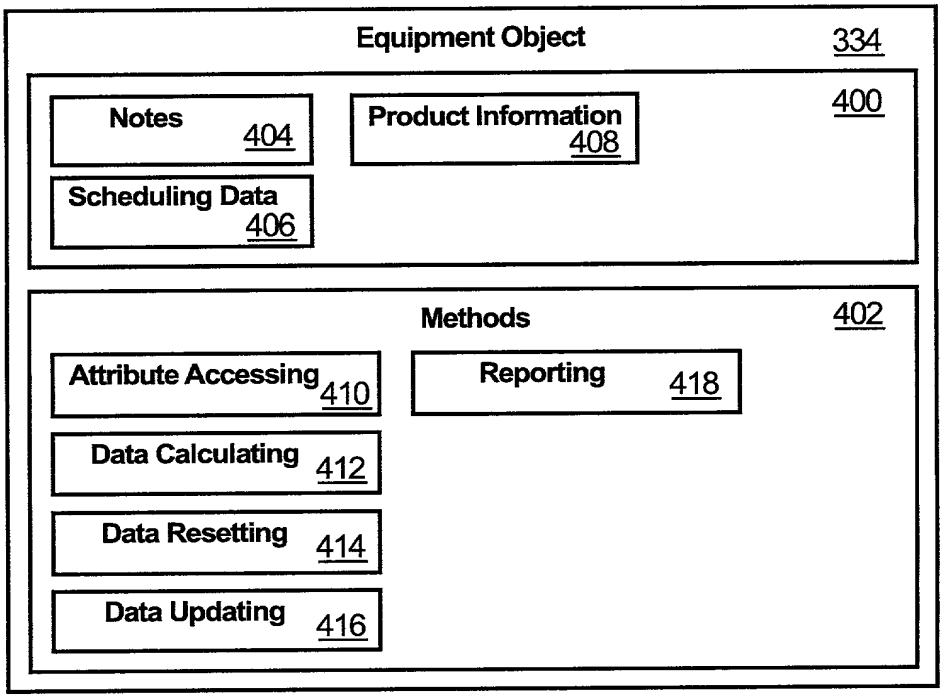

FIG. 18

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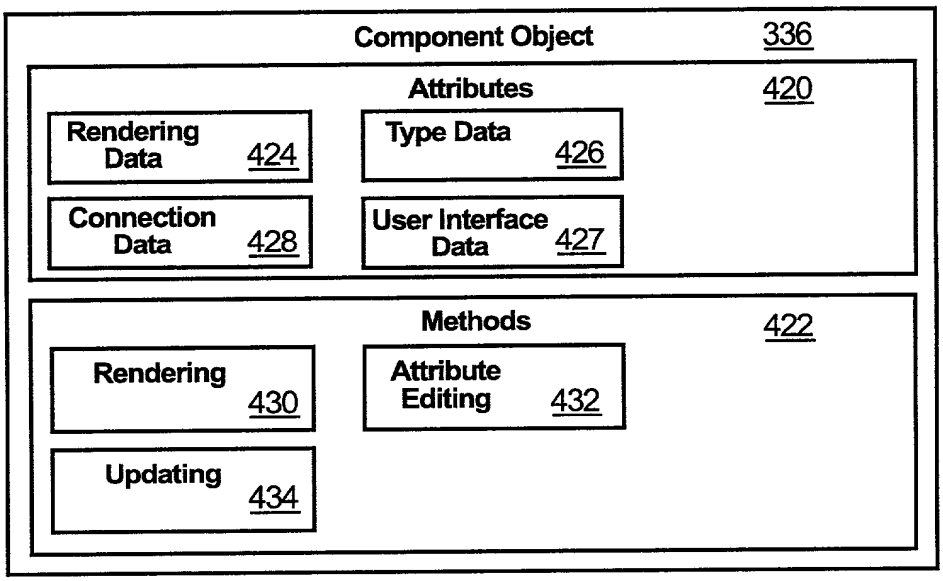

FIG. 19

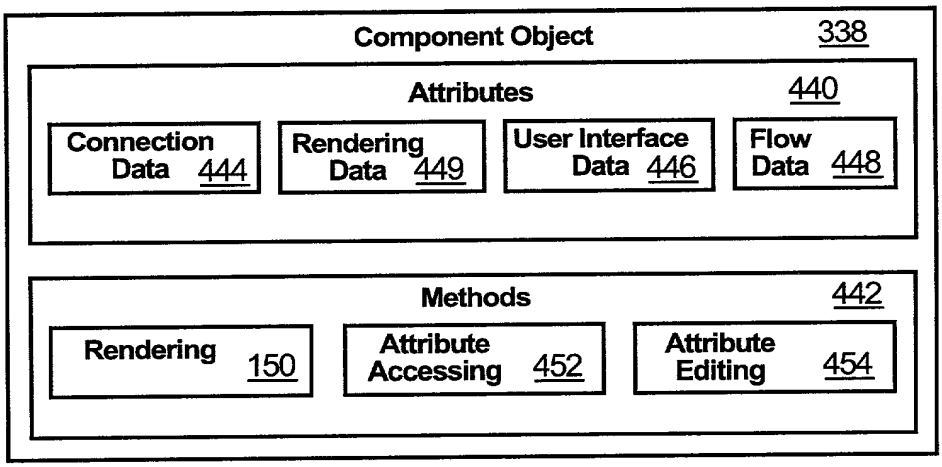

FIG. 20

Docket No. 2003P13569

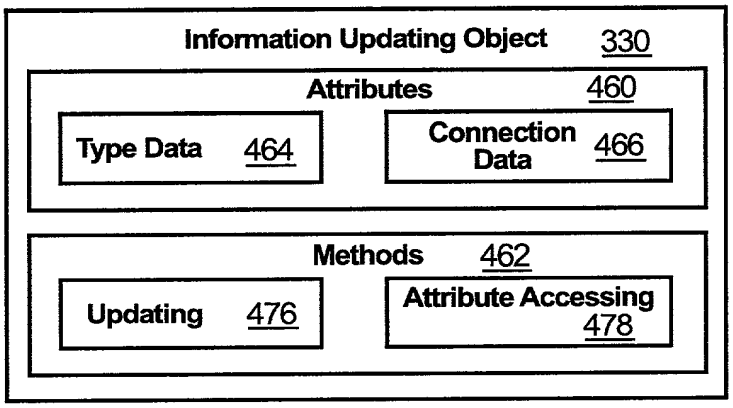

FIG. 21

Replacement Sheet